rrors Corrected by the STIC Systems Branch CRF Processing Date: Serlai Number: Edited by: Changed a file from non-ASCII to ASSI Verified by: Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was T the prior application data; or T other \_\_\_\_\_\_. Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. 🔀 Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: \_\_\_\_non-ASCII "garbage" at the beginning/end of files; \_\_\_\_ secretary initials/filename at end of file: page numbers throughout text; other invalid text, such as\_\_\_\_\_ Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected: \_ Other:

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



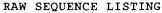
OIPE

RAW SEQUENCE LISTING DATE: 02/06/2002 PATENT APPLICATION: US/09/900,708 TIME: 10:57:46

Input Set : N:\jumbos\900708.txt

Output Set: N:\CRF3\02062002\I900708.raw

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 6 <120> TITLE OF INVENTION: TRANSGENIC MICE CONTAINING INTESTINAL
         ALKALINE PHOSPHATASE GENE DISRUPTIONS
10 <130> FILE REFERENCE: R-733
12 <140> CURRENT APPLICATION NUMBER: US 09/900,708
13 <141> CURRENT FILING DATE: 2001-07-06
15 <150> PRIOR APPLICATION NUMBER: US 60/216,476
16 <151> PRIOR FILING DATE: 2000-07-06
18 <150> PRIOR APPLICATION NUMBER: US 60/221,489
19 <151> PRIOR FILING DATE: 2000-07-27
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25 <210> SEQ ID NO: 1
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28 <213> ORGANISM: Mus musculus
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34 tgtacaggac attgtgagca agaagtgggt gctgcaaact gcataacccc cctcctaccg 240
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PATENT APPLICATION: US/09/900,708

TIME: 10:57:46

DATE: 02/06/2002

Input Set : N:\jumbos\900708.txt

Output Set: N:\CRF3\02062002\I900708.raw

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DATE: 02/06/2002 RAW SEQUENCE LISTING TIME: 10:57:46 PATENT APPLICATION: US/09/900,708

Input Set : N:\jumbos\900708.txt

Output Set: N:\CRF3\02062002\1900708.raw

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116	aaca	acact	ttt 🤉	gata	ccact	ta gi	taata	attag	g gaa	agati	tgaa	tate	gcate	cct	tattt	tgctaa	5160
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136		_	- 1	_		70	_	_			75	_	1	_	_	80	
	HIS	Leu	GIY	Pro		Thr	Pro	Leu	Ala		Asp	Arg	Pne	Pro	Tyr	Met	
138	7.1.	Т	0	T	85	m	0	37 m ]	λ	90	<i>0</i> 1 =	17 1	D	2	95	7.1.	
	Ala	ьeu	ser	100	THE	TAL	ser	val		Arg	GIII	val	Pro		Ser	Ala	
14()	Cor	mh x	ת 1 ת		λl <sub>2</sub>	Marx	Tou	Crro	105	va 1	Tira	mh x	Nan	110	T ***	mh m	
141	Ser	1111	115	1111	Ald	тут	Leu	120	GIY	val	гуѕ	1111	125	тут	Lys	1111	
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144	116	130		261	AIG	ліц	135	nry	rne	изр	GIII	140	USII	1111	1111	FILE	
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146		11011	Olu	vul	1 110	150	vul	ricc	1 7 1	mrg	155	цуз	шуы	nia	GIY	160	
		Val	Glv	Val	Val		Thr	Thr	Ara	Val		His	Δla	Ser	Pro		
148	001	141	O.L.	,	165					170	01		1114	DCI	175	DOI	
	Glv	Thr	Tvr	Val		Thr	Val	Asn	Ara		Trp	Tvr	Glv	Asp	Ala	Asp	
150	011		-1-	180			, 42		185			-1-	011	190		110F	
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152	2 0		195				5	200	1	-1-	-1-	F	205				
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154		210				-	215					220	_	_	,	•	
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,708

DATE: 02/06/2002 TIME: 10:57:46

Input Set : N:\jumbos\900708.txt

Output Set: N:\CRF3\02062002\I900708.raw

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162			275			-		280			-		285	-			
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	305	DCI	пса	LIS	пор	310	* * * * *	014	1111	1114	315	Lys	, aı	Lea	DCI	320	
		Dro	Lvc	C137	Dha		LAU	Dho	Val	Glu		G1v	λησ	Tlo	Nen		
168	ASII	110	цуз	GLY	325	тут	пса	1110	Val	330	GLY	GLY	hig	110	335	Arg	
	C111	uic	иіс	Lou		Thr	λla	Tur	Leu		T OU	Thr	clu	λla		Mot	
170	GIY	птэ	птэ	340	атХ	1111	нта	тут	345	Ата	Leu	1111	13 L U	350	Val	мес	
	Dha	N	T 0		т1 о	<i>a</i> 1	A 20.00	A 1 =		G1	T 0	mba	000		A ====	200	
	Phe	Asp		Ald	Пе	GIU	Arg		Ser	GIII	Leu	IIII		GIU	Arg	Asp	
172	1	_	355	- 1		<b></b> 1		360	'		•		365		-1	<b>~</b> 1	
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	-	Tyr	Thr	Leu	Arg	_	Thr	Ser	Ile	Phe	_	Leu	Ala	Pro	Leu		
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	Ala	Leu	Asp	Gly		Pro	Tyr	Thr	Ser		Leu	Tyr	Gly	Asn		Pro	
178					405					410					415		
179	Gly	Tyr	Val	Gly	Thr	Gly	Glu	Arg	Pro	Asn	Val	Thr	Ala	Ala	Glu	Ser	
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182			435					440					445				
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184		450					455					460					
185	His	Leu	Val	His	Gly	Val	Gln	Glu	Gln	Asn	Tyr	Ile	Ala	His	Val	Met	
186	465					470					475					480	
187	Ala	Ser	Ala	Gly	Cys	Leu	Glu	Pro	Tyr	Thr	Asp	Cys	Gly	Leu	Ala	Pro	
188				_	485				_	490	_				495		
189	Pro	Ala	Asp	Glu	Ser	Gln	Thr	Thr	Thr	Thr	Thr	Arq	Gln	Thr	Thr	Ile	
190			•	500					505			_		510			
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192			515					520					525				
	Ser	Ala	. –	Ser	Leu	Glv	Pro		Thr	Ala	Pro	Leu		Leu	Ala	Leu	
194	201	530				0-1	535					540					
	Len		Glv	Met	Leu	Met		Leu	Leu	Glv	Ala		Δla	Glu	Ser		
	545	1114	OI I	1100	пса	550	пси	пса	Lea	O I I	555	110	1114	OIG	DCI		
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209	Laac	gtcca	199 (	Jacto	rigte	JC ET	Lagt	Lyat	_ ccc	reggt	_g c c	Legi	_g cct	الل ﴿	JUCTO	getget 1	∠∪

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,708 TIME: 10:57:46

DATE: 02/06/2002

200

Input Set : N:\jumbos\900708.txt

Output Set:  $N:\CRF3\02062002\I900708.raw$ 

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223	cagoccatto agacatcago tas	agaacctc	atcatcttcc	tgggcgacgg	tgagtgtgtg	120							
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225 cggacaggcc tcagggttca

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/900,708

DATE: 02/06/2002

TIME: 10:57:47

Input Set : N:\jumbos\900708.txt

Output Set: N:\CRF3\02062002\I900708.raw



OIPE

RAW SEQUENCE LISTING

DATE: 01/28/2002

PATENT APPLICATION: US/09/900,708

TIME: 13:29:29

Input Set: A:\R-733 Sequence listing for submission.txt

Output Set: N:\CRF3\01282002\I900708.raw

Does No Comply Corrected Diskette Need

- 4 ·110 > APPLICANT: Allen, Keith D.
- 6 :120: TITLE OF INVENTION: TRANSGENIC MICE CONTAINING INTESTINAL
- ALKALINE PHOSPHATASE GENE DISRUPTIONS
- 10 -: 130> FILE REFERENCE: R-733
- 12 -: 140> CURRENT APPLICATION NUMBER: US 09/900,708
- 13 -: 141> CURRENT FILING DATE: 2001-07-06
- 15 (150) PRIOR APPLICATION NUMBER: US 60/216,476
- 16 -: 151: PRIOR FILING DATE: 2000-07-06
- 18 -: 150> PRIOR APPLICATION NUMBER: US 60/221,489
- 19 -(151) PRIOR FILING DATE: 2000-07-27
- 21 -: 160> NUMBER OF SEQ ID NOS: 4
- 23 <170> SOFTWARE: FastSEO for Windows Version 4.0

## ERRORED SEQUENCES

- 213 <210> SEQ ID NO: 4
- 214 <211> LENGTH: 200
- 215 <212> TYPE: DNA
- 216 <213> ORGANISM: Artificial Sequence
- 218 <220> FEATURE:
- 219 <223> OTHER INFORMATION: Targeting vector
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- 224 agegaggeet ggecaecetg gggeeettgt acteeaagta eeeagggeea etggtgggta 180
- 225 Aggacaggcc tcagggttca 200
- E--> 229(1)

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/900,708

DATE: 01/28/2002

TIME: 13:29:30

Input Set : A: $\R-733$  Sequence listing for submission.txt

Output Set: N:\CRF3\01282002\I900708.raw

L:229 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:200 SEQ:4